

## CLAIMS:

1. A high-voltage connector having a plug (10) with a rubber cone (13) for insertion into a coupling socket (20), in which the length of the rubber cone (13) is dimensioned such that, in the inserted state, there remains an expansion space (25) between an end face of the rubber cone (13) and a bottom of the coupling socket (20), into which expansion space (25) the rubber cone (13) can expand thermally.
2. A high-voltage connector as claimed in claim 1, in which the expansion space (25) is filled with a medium which can be compressed by a thermal expansion of the rubber cone (13).
3. A high-voltage connector as claimed in claim 2, in which the medium is a gas and/or a silicone material having gas cavities.
4. A high-voltage connector as claimed in claim 1, in which a potential well (21) is arranged in the coupling socket (20), which potential well (21) is connected to at least one high-voltage contact pin (14, 15) of the connector and encloses the expansion space (25) at least to the extent that during the intended use no spark discharges can occur at the contact pin (14, 15).
5. A high-voltage connector as claimed in claim 1, having a compression spring (16) acting on the plug (10), by means of which compression spring (16) the latter is prestressed in the direction of the inserted position.